

ABSTRACT OF THE DISCLOSURE

5 An IF signal output from an IF amplifying circuit included in a tuner is converted to have a band width for transmission by an SAW filter and has unnecessary signals removed therefrom. Thereafter, the resulting signal has its gain made constant by an IFAGC circuit, amplified by an IF amplifying circuit, unnecessary band components are removed by a lowpass filter, and balanced IF signals are output from unbalance/balance converting circuit and provided to a QAM demodulating circuit.